

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 October 2003 (09.10.2003)

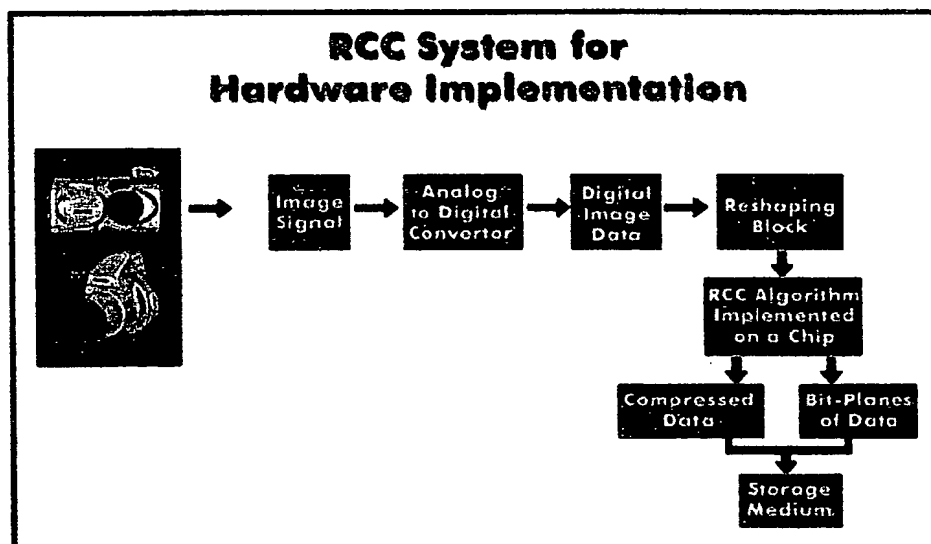
PCT

(10) International Publication Number
WO 2003/084205 A3

- (51) International Patent Classification⁷: **H04N 7/28**, (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number: PCT/IN2003/000049
- (22) International Filing Date: 7 March 2003 (07.03.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
895/MAS/2001 1 April 2002 (01.04.2002) IN
- (71) Applicant (*for all designated States except US*): MA-TRIXVIEW PTE. LTD. [SG/SG]; 9 Shenton Way, #05-02, Singapore 068813 (SG).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): THIAGARAJAN, Arvind [IN/IN]; H24/6, Vaigai Street, Besant Nagar, 600090 Chennai, Tamil Nadu (IN).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: REPETITION CODED COMPRESSION FOR HIGHLY CORRELATED IMAGE DATA



(57) Abstract: This invention is related to both a process and a system for compressing highly correlated image data. The system for compressing image and other highly correlated data comprises means for capturing the image, means for converting to digital form, means for reshaping the data, means for encoding the repetitions, means for storing the compressed data and means for retrieving the data. The method for compressing image and other highly correlated data comprises of steps like capturing the image, converting into digital form, reshaping the data into matrix form, encoding the repetitions into a bit-plane index and stored data values, storing the compressed data in storage memory and retrieving the data for decompression. The system and method for compressing image and other highly correlated data is described in the description and illustrated by the way of drawings.



(88) Date of publication of the international search report:
8 April 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN 03/00049-0

CLASSIFICATION OF SUBJECT MATTER

IPC⁷: H04N 7/28, H03M 7/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: H04N 7/28, 7/30, H03M 7/30, G06K 9/36

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6351568 B1 (ANDREW) 26 February 2002 (26.02.02) <i>claims 1,2,4,5; fig. 1.</i>	1,3-5,8-11
X	WO 98/37700 A1 (BRITISH TECHNOLOGY GROUP LIM.) 27 August 1998 (27.08.98) <i>claims 1-6,17.</i>	1,3-5,8-10,12

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&“ document member of the same patent family

Date of the actual completion of the international search

15 December 2003 (15.12.2003)

Date of mailing of the international search report

11 February 2004 (11.02.2004)

Name and mailing address of the ISA/AT

Austrian Patent Office

Dresdner Straße 87, A-1200 Vienna

Facsimile No. 1/53424/535

Authorized officer

FUSSY S.

Telephone No. 1/53424/328

Form PCT/ISA/210 (second sheet) (July 1998)

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN 03/00049-0

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 13-15
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claim 13 only refers to applications of the claimed invention and not to technical features,
Claims 14-15 only refer to the description or the drawings, respectively, and again not to technical features of the claimed invention.
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/IN 03/00049-0

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
US	B	6361568	2002-02-26	none			
WO	A	9837700	1998-08-27	US	B	6556719	2003-04-29
				DE	T	69806729T	2003-04-03
				DE	D	69806729D	2002-08-29
				EP	A	0962099	1999-12-08